

IEEE P802.3bk Extended EPON Task Force Minutes

Thursday 5/17

9:00 AM– Chair opened the Meeting

Working Secretary assigned (Duane Remein)

Appointment and affirmation of the IEEE P802.3bk Task Force Chair:

David Law Appointed Marek Hajduczenia as Chair of the Task Force.

Motion #1

Move that Marek Hajduczenia be affirmed as Chair of the Task Force

First: Duane Remein

Second: Randy Perrie

For 13

Against 0

Abstain 0

Motion passes

The TF Chair went over [Opening material](#)

Held introductions reviewed TF decorum, attendance, etc.

Announced the [Private Area Web site](http://www.ieee802.org/3/bk/private/index.html) (<http://www.ieee802.org/3/bk/private/index.html>)

Reviewed Patent Policy

9:20 AM The Chair made the Call for Patents; no response was received.

Briefly discussed time line; the Chair expects to complete in the Jul 2013 time frame.

Motion #2

Approve minutes of March 2012 meeting as recorded in ExEPON_1203_minutes_unapproved.pdf and post them online as ExEPON_1203_minutes_approved.pdf

Moved by: Randy Perrie

Seconded by: Wen Li

Procedural motion (>50%)

Motion passed by voice without opposition

Motion #3

Approve agenda for 2012 May meeting of Extended EPON Task Force, as shown in 8023bk_1205_opening.pdf, slide 25

Moved by: Duane Remein

Seconded by: Ed Mallette

Procedural motion (>50%)

Motion passed by voice without opposition

9:30 AM The Chair solicited a volunteer to drive the ODN ad-hoc.

9:31 AM "[Extended EPON PMD Specifications](#)" presented by Wen Li of Finisar Corp.

This document suggested text and tables specifying a PX-30, PX-40, PRX-40 and PR-40 PMDs.

It was suggested that tables 4&5 allow an overload condition and minimum insertion loss should be -15 dB. It was also suggested that PX40-U receiver (-30 dBm sensitivity) be constructed with a PIN and "super TIA" rather than APD. The +10 dBm (as opposed to 15 dBm) Average Launch power for a DFB in PR40-U was questioned and it was suggested that the OLT receiver (-29 dBm Receiver sensitivity) be increased instead. However this trade-off was not agreed.

10:10 Break

10:20 AM "[Analysis of the extreme overload scenarios for PMDs](#)" presented by Xifang Zhang of ZTE

Analyzed various mixes of 20/30/40 class PMDs in and ODN with 24dB (existing) and 29dB (extended section) loss sections. Concluded in the scenarios analyzed that no damage would occur but some mis-configurations would not function reliably (expected). Did not analyze any cases where ODN was at or near minimum loss budget.

10:35 AM "[Power Budget Extender For EPON](#)" presented by Xifang Zhang of ZTE

Reviewed various solutions for creating an active power budget extender including optical amplifiers (including distributed Raman amplifier), OEO and hybrid architectures. Concluded that a hybrid SOA/OEO extender was the best choice for 10G-EPON and coexistence. There were some questions about comparison to remote OLTs, cost assessments, traffic condition at very high splits, and timing independence of "Frame Regeneration" OEO. It was noted that, if located in CO, the optimal solution maybe different than that in the conclusions.

11:20 AM [High-power Transmitter for 10G-EPON](#) presented by Wen Li of Finisar

Examined various technologies for achieving high power lasers at 10G. Questions covered manufacturability maturity, and DML biasing (needs high driving power).

11:40 AM John DeAmbrosia made an announcement about Bandwidth Assessment ad hoc. Work is completed and a consensus building effort will begin (sponsored by Industry Connections forum) and John should be contacted if there is interest.

11:42 AM [Outline for D0.1 and work involved](#) presented by the Chair

Outlined future process and suggested structure of draft. It was agreed that an Annex for the PBEx is not

required and the specifications for this application can be included in CI 60 and CI 75 for 1G and 10G extender PMDs respectively.

11:50 AM [A scrambling method for 10G Extended EPON upstream](#) presented by Akio. Tajima of NEC
It was noted that, while the presentation was very interesting, modification of the PCS is outside the scope of the task force.

1:30 PM [Task Force Comment Tool Tutorial](#) presented by Wael Diab, Working Group Vice Chair
Review of comment tool and proper commenting.

2:15 Motion MADDNESS!

Motion #4

Adopt parameters for individual EPON PMDs, as shown in 8023bk_1205_li_1b.pdf, as baseline for PX30, PX40, PRX40, and PR40 PMDs.

Moved by: Wen Li

Seconded by: Xifang Zhang

Yes: 14

No: 0

Abstain: 0

Technical motion ($\geq 75\%$)

Motion Passes

Straw Poll #1

I support adding specifications for Power Budget Extenders into the P802.3bk TF draft per existing optional objective

Yes: 3

No: 0

2:35 PM The Chair appointed Susumu Nishihara, from NTT Labs, as P802.3bk Task Force editor.

Motion #5

Move that Susumu Nishihara be affirmed as the P802.3bk Task Force editor.

Moved by: Alan Brown

Seconded by: Duane Remein

Procedural motion ($>50\%$)

Motion passed by voice vote without opposition

Motion #6

Charter the project Editor with creating draft D1.0 by incorporating the adopted baseline proposals and start the Task Force review process.

Moved by: Ed Mallette

Seconded by: Duane Remein

Yes: 14

No: 0
Abstain: 0
Technical motion (≥75%)
Motion passes

Reviewed next meeting and agreed that D1.0 would be available June 4th, Comments due July 9th, in preparation for July 16th meeting.

Straw Poll #2

I will attend the July meeting.	9
I might attend the July meeting.	3
I might not attend the July meeting.	2
I might attend the July meeting.	0

Straw Poll #2

I will attend the P802.3bk July meeting.	6
I might attend the P802.3bk July meeting.	5
I might not attend the P802.3bk July meeting.	0
I will not attend the P802.3bk July meeting.	0

Motion #

Move to adjourn.

Moved by: Duane Remein

Seconded by: Xifang Zhang

Motion passed by voice without opposition.

3:10 PM Meeting Adjourned

List of attendees 2012.05.17
(alphabetic)

Akio Tajima / NEC
Alan Brown / Aurora
Bill Powell / Alcatel Lucent
Dawid Law / HP
Dirk Breuer / Deutsche Telecom
Duane Remein / Huawei
Dylan Ko / Qualcomm
Ed Mallette / Bright House Networks
Hesham ElBakoury / Huawei
Jim Goell / Nano Precision Products
Jun Sugawa / Hitachi
Marek Hajduczenia / ZTE
Randy Perrie / OneChip
Shugo Matsuda / Hitachi
Susumu Nishihara / NTT
Wael Diab / Broadcom
Wen Li / Finisar
Xifang Zhang / ZTE